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SEQUENCE LISTING

<110> Ludevid, Doloros Torrent, Margarita Alvarez, Inaki Perez, Pascual

<120> Amino acid-enriched plant protein reserves, particularly lysine-enriched maize gamma-zein, and plants expressing such proteins

<130> 50062/004001

<140> 09/117,246

<141> 1998-12-03

<150> PCT/FR97/00167

<151> 1997-01-28

<150> FR96/01004

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Phe Lys Leu Asp
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gcc acc tcc acg cat aca agc ggc ggc tgc ggc tgc cag cca ccg ccg
Ala Thr Ser Thr His Thr Ser Gly Gly Cys Gly Cys Gln Pro Pro
ccg gtt cat cta ccg ccg ccg gtg cat ctg cca cct ccg gtt cac ctg
Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Val His Leu
                                                                192
cca cct ccg gtg cat ctc cca ccg ccg gtc cac ctg ccg ccg ccg gtc
Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Val
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His Leu Pro Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro
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 Leu
 Leu
 Val
 Ala
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 Leu
 Pro
 <th

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Pro Lys G	aa ttc lu Phe 15													384
acc ccg a Thr Pro I 130														432
ccg acg go Pro Thr A 145														480
cag tgt tg Gln Cys C														528
gcg atc to Ala Ile Pl														576
agc ggc ca Ser Gly G														624
acg gcg at Thr Ala Me 210														672
gcc ggc g				tga										693
Ala Gly G	ly Val	Pro	H1S 230	*										
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Pro Thr Ala Thr Pro Tyr Cys Ser Pro Gln Cys Gln Ser Leu Arg Gln 150 155 Gln Cys Cys Gln Gln Leu Arg Gln Val Glu Pro Gln His Arg Tyr Gln 170 Ala Ile Phe Gly Leu Val Leu Gln Ser Ile Leu Gln Gln Gln Pro Gln 185 Ser Gly Gln Val Ala Gly Leu Leu Ala Ala Gln Ile Ala Gln Gln Leu 200 Thr Ala Met Cys Gly Leu Gln Gln Pro Thr Pro Cys Pro Tyr Ala Ala 220 Ala Gly Gly Val Pro His <210> 10 <211> 723 <212> DNA <213> Maize <220> <221> CDS <222> (1) ... (723) <400> 10 atg agg gtg ttg ctc gtt gcc ctc gct ctc ctg gct ctc gct gcg agc 48 Met Arg Val Leu Leu Val Ala Leu Ala Leu Ala Leu Ala Ser 10 gee ace tee acq cat aca age gge gge tge gge tge cag cca ccg ccg 96 Ala Thr Ser Thr His Thr Ser Gly Gly Cys Gly Cys Gln Pro Pro ccq qtt cat cta ccq ccq qtq cat ctq cca cct ccq qtt cac ctq Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu 35 40 cca cct ccg gtg cat ctc cca ccg ccg gtc cac ctg ccg ccg ccg gtc 192 Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Val 50 55 cac ctg cca ccg ccg gtc cat gtg ccg ccg gtt cat ctg ccg ccg His Leu Pro Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro 65 70 75 cca cca tgc cac tac cct act caa ccg ccc cgg cct cag cct cat ccc Pro Pro Cys His Tyr Pro Thr Gln Pro Pro Arg Pro Gln Pro His Pro cag cca cac cca tgc ccg tgc caa cag ccg cat cca agc ccg tgc cag Gln Pro His Pro Cys Pro Cys Gln Gln Pro His Pro Ser Pro Cys Gln 100 atc gaa ttc aaa cca aag cca aag ccg aag cca aaa gaa ttc ctg cag Ile Glu Phe Lys Pro Lys Pro Lys Pro Lys Glu Phe Leu Gln 115 ccc ctq caq qqa acc tqc qqc qtt qqc aqc acc ccq atc ctg ggc cag

							,									
Pro	Leu 130	Gln	Gly	Thr	Căâ	Gly 135	Val	Gly	Ser	Thr	Pro 140	Ile	Leu	Gly	Gln	
						cat His										480
						tcg Ser										528
						cac His										576
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150 155 145 Cys Ser Pro Gln Cys Gln Ser Leu Arg Gln Gln Cys Cys Gln Gln Leu 165 170 Arg Gln Val Glu Pro Gln His Arg Tyr Gln Ala Ile Phe Gly Leu Val 180 185 Leu Gln Ser Ile Leu Gln Gln Gln Pro Gln Ser Gly Gln Val Ala Gly
195 200 205 200 205 Leu Leu Ala Ala Gln Ile Ala Gln Gln Leu Thr Ala Met Cys Gly Leu 215 220 Gln Gln Pro Thr Pro Cys Pro Tyr Ala Ala Gly Gly Val Pro His 230 235